

	1	5	10	15	20	25	30
VSP-b	S	S	E	V	A	K	K
VSP-a	T	P	E	E	K	K	K
T.phos			L	K	T	T	A
Ph.vulg	D	T	E	V	R	A	S
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	31	35	40	45	50	55	
VSP-b	P	E	K	D	V		
VSP-a	A	T	K	E			
T.phos	E	V	A	K	E		
Ph.vulg		A	N				
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	60	65	70	75	80	85	
VSP-b							
VSP-a							
T.phos	V	D	G	D			
Ph.vulg	H						
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	90	95	100	105	110	115	
VSP-b		E					
VSP-a							
T.phos	L	V	D	V	E	F	
Ph.vulg	S			E	R		
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	120	125	130	135	140	145	
VSP-b							
VSP-a							
T.phos	E	V	K				
Ph.vulg							
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	150	155	160	165	170	175	
VSP-b							
VSP-a							
T.phos	N						
Ph.vulg							
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	180	185	190	195	200	205	
VSP-b		N	L				
VSP-a							
T.phos	A	M	E				
Ph.vulg	A						
Ar.VSP							
Ar.1A-1							
Ar17A-1							
	210	218					
VSP-b							
VSP-a							
T.phos							
Ph.vulg							
Ar.VSP							
Ar.1A-1							
Ar17A-1							

Figure 2

PROPOSED VSP $\beta$  METHIONINE-ENRICHED VARIANTS

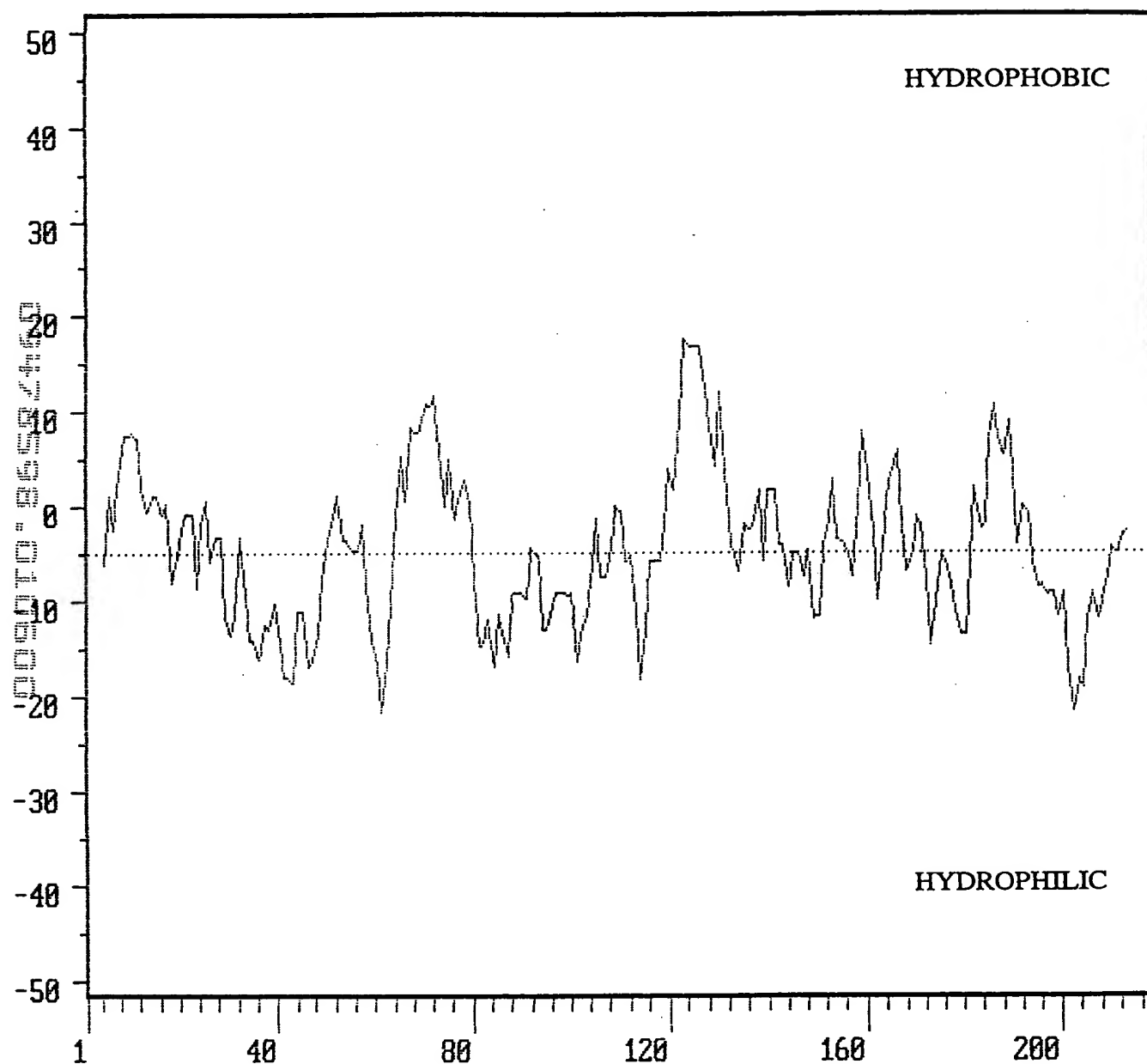
	1	5	10	15	20	25	30																							
VSPβ	R	S	S	E	V	K	C	A	S	F	R	L	A	V	E	A	H	N	I	R	A	F	K	T	I	P	E	E	C	V
VSPβ-Met10					M														M											M
VSPβ-Met20					M														M											M
VSPβ-Met30					M														M						M					M
	31	35	40	45	50	55	60																							
VSPβ	E	P	T	K	D	Y	I	N	G	E	Q	F	R	S	D	S	K	T	V	N	Q	Q	A	F	F	Y	A	S	E	R
VSPβ-Met10							M							M																M
VSPβ-Met20							M							M																M
VSPβ-Met30							M							M						M										M
	61	65	70	75	80	85	90																							
VSPβ	E	V	H	H	N	D	I	F	I	F	G	I	D	N	T	V	L	S	N	I	P	Y	Y	E	K	H	G	Y	G	V
VSPβ-Met10							M									M														M
VSPβ-Met20							M									M														M
VSPβ-Met30							M									M				M										M
	91	95	100	105	110	115	120																							
VSPβ	E	E	F	N	E	T	L	Y	D	E	W	V	N	K	G	D	A	P	A	L	P	E	T	L	K	N	Y	N	K	L
VSPβ-Met10																														
VSPβ-Met20																														
VSPβ-Met30																														
	121	125	130	135	140	145	150																							
VSPβ	L	S	L	G	F	K	I	V	F	L	S	G	R	Y	L	D	K	M	A	V	T	E	A	N	L	K	K	A	G	F
VSPβ-Met10																														
VSPβ-Met20																														
VSPβ-Met30																														
	151	155	160	165	170	175	180																							
VSPβ	H	T	W	E	Q	L	I	L	K	D	P	H	L	I	T	P	N	A	L	S	Y	K	S	A	M	R	E	N	L	L
VSPβ-Met10																														
VSPβ-Met20																														
VSPβ-Met30																														
	181	185	190	195	200	205	210																							
VSPβ	R	Q	G	Y	R	I	V	G	I	I	G	D	Q	W	S	D	L	L	G	D	H	R	G	E	S	R	T	F	K	L
VSPβ-Met10									M													M								
VSPβ-Met20									M													M					M			
VSPβ-Met30									M													M				M				
	211	215	218																											
VSPβ	P	N	P	M	Y	Y	I	E																						
VSPβ-Met10																														
VSPβ-Met20																														
VSPβ-Met30																														

00000"06337460

Fig. 3A

Hydropathy index computation for sequence VSPB.

Total number of amino acids is: 218.



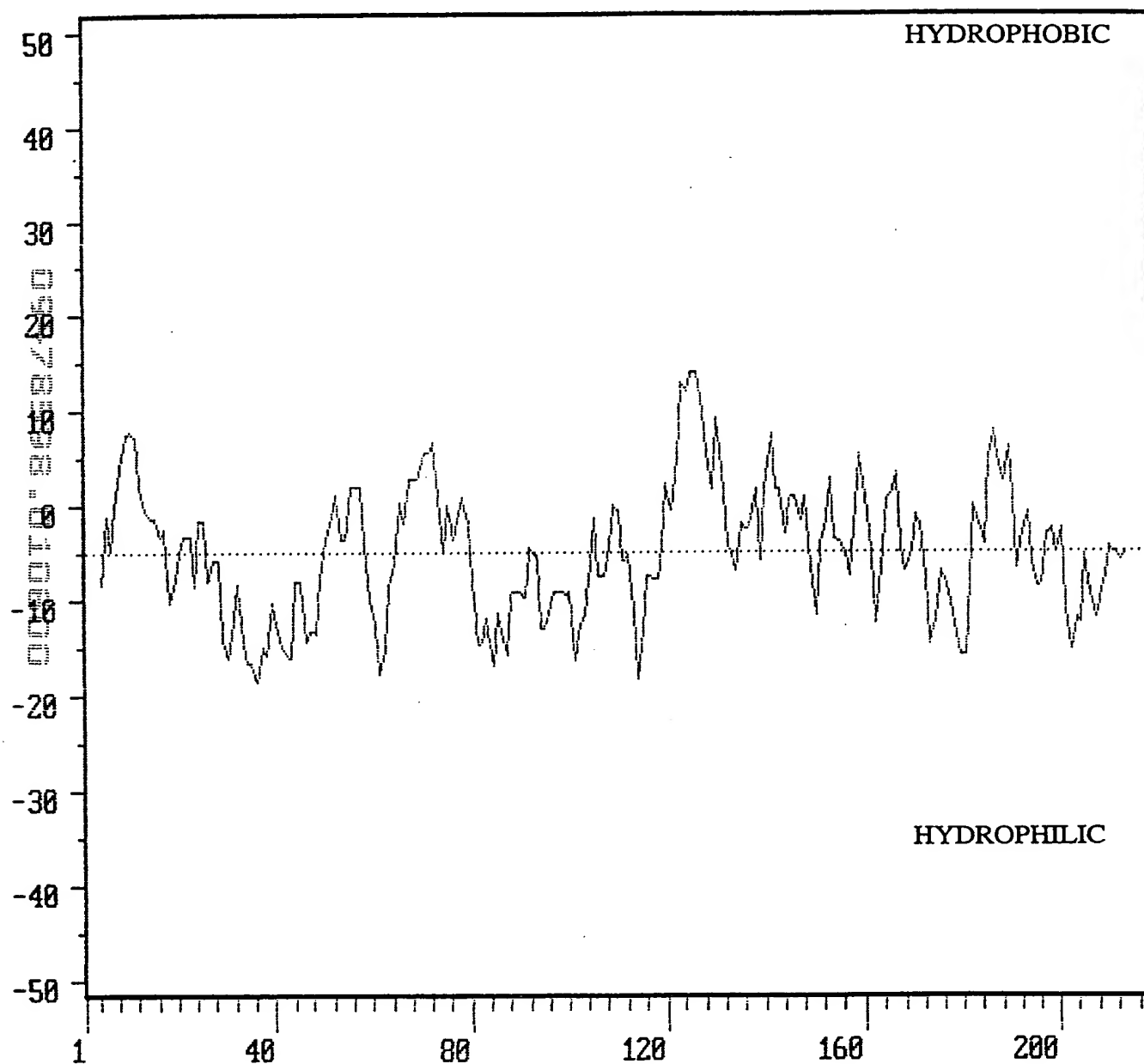
Hydropathic index of VSPB from amino acid 1 to amino acid 218.

Computed using an interval of 9 amino acids. (GRAVY = -4.95).

Fig. 3B

Hydropathy index computation for sequence VSPM10

Total number of amino acids is: 218.



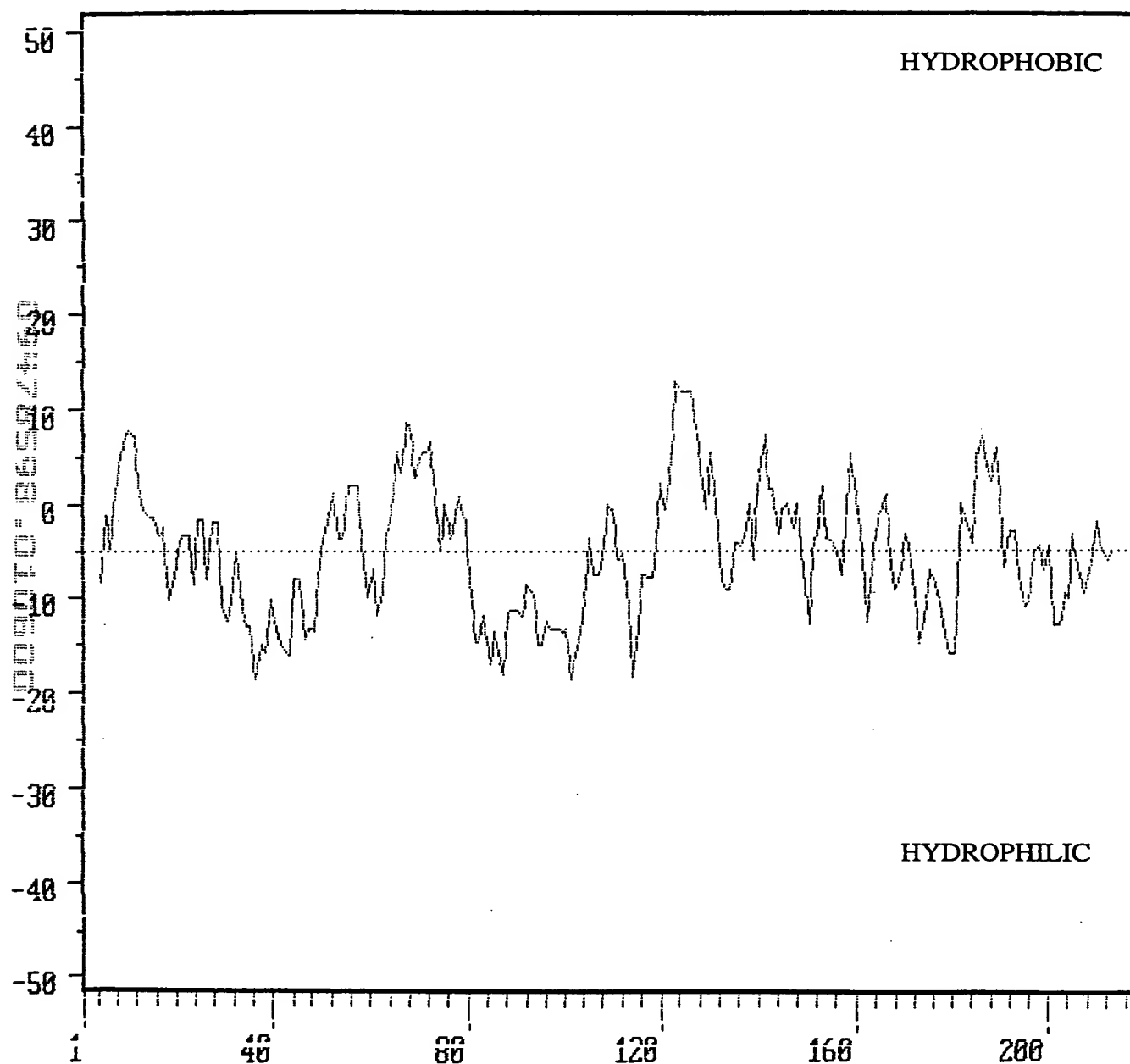
Hydropathic index of VSPM1 from amino acid 1 to amino acid 218.

Computed using an interval of 9 amino acids. (GRAVY = -5.52).

Fig. 3C

Hydropathy index computation for sequence VSPM20.

Total number of amino acids is: 218.



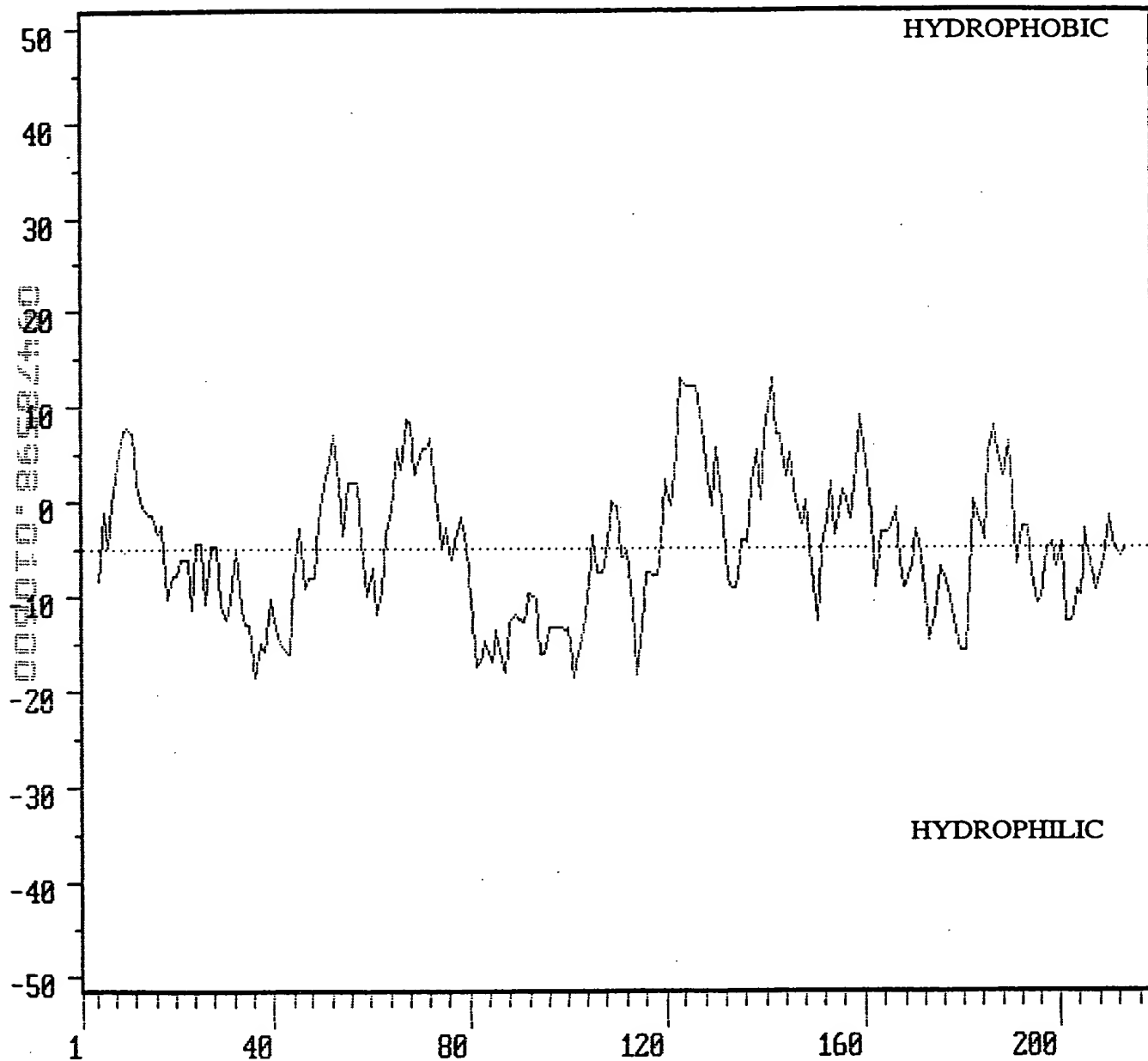
Hydropathic index of VSPM20 from amino acid 1 to amino acid 218.

Computed using an interval of 9 amino acids. (GRAVY = -5.68).

Fig. 3D

Hydr pathy ind x computation for sequence VSPM30.

Total number of amino acids is: 218.



Hydropathic index of VSPM30 from amino acid 1 to amino acid 218.

Computed using an interval of 9 amino acids. (GRAVY = -5.31).

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[illegible][illegible]

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Figure 5

# Colony lift assay to detect protein-protein interactions

